NON-RETURN VALVE 600H

**Benefits**
- A spring loaded non-return valve prevents back feeding of gases which could lead to unwanted gas mixtures
- Low opening pressure approx. 250 mbar
- No leaks – using of a spring loaded valve assembly with elastomer sealing
- Diverse applications – useful for many technical gases
- Reduce installation costs – the spring loaded valve is not affected by gravity and may be installed in any orientation

**Operation / Usage**
- Non-return valves are used to protect equipment and pipelines against dangerous reverse gas flow
- The maximum ambient / working temperature is 70 °C / 158 °F

**Maintenance**
- Annual testing of the non-return valve, body leak tightness and flow capacity is recommended
- WITT is happy to supply special test equipment
- Non-return valves are only to be serviced by the manufacturer

**Approvals**
- Company certified according to ISO 9001 and PED 2014/68/EU Module H
- CE-marked according to PED 2014/68/EU
- Cleaned for Oxygen Service according to EIGA IGC Doc 13/12/E: Oxygen Pipeline and Piping Systems

<table>
<thead>
<tr>
<th>Model</th>
<th>Max. working pressure</th>
<th>Housing-Material</th>
<th>Seal-Material</th>
<th>Weight [g]</th>
<th>Connection [inch]</th>
<th>Order-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>600H</td>
<td>Town- (C), Natural gas (M) and LPG (P), Hydrogen (H), Oxygen (O), Compressed air (D), non-flammable gases</td>
<td>40</td>
<td>Brass</td>
<td>745</td>
<td>G 1/2</td>
<td>037-042</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Elastomer</td>
<td>686</td>
<td>G 3/4</td>
<td>037-035</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>589</td>
<td>G 1</td>
<td>037-039</td>
</tr>
<tr>
<td>600H-ES</td>
<td>Town- (C), Natural gas (M) and LPG (P), Hydrogen (H), Oxygen (O), Compressed air (D), non-flammable gases</td>
<td>40</td>
<td>Stainless steel</td>
<td>681</td>
<td>G 1/2</td>
<td>037-064</td>
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<tr>
<td></td>
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<td></td>
<td></td>
<td>615</td>
<td>G 3/4</td>
<td>037-065</td>
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<tr>
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<td></td>
<td></td>
<td>540</td>
<td>G 1</td>
<td>037-048</td>
</tr>
</tbody>
</table>

Other connections available upon request.
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Flow diagram for air (20 °C / 68 °F)

Inlet pressure: \( P_v \) [bar] Opening pressure: 250 mbar

Conversion factors:
- Butane \( x 0.68 \)
- Natural gas \( x 1.25 \)
- Methane \( x 1.33 \)
- Propane \( x 0.80 \)
- Oxygen \( x 0.95 \)
- Nitrogen \( x 1.00 \)
- Hydrogen \( x 3.75 \)

Flow diagram for air (20 °C / 68 °F)

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